USCMS Engineer Status Report for April 2004

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1 Work Performed This Month

The focus remained on development, 1. MOPDb, the prototye project is developed further, JavaApplet/JavaScript and other options were expolred to provide a reasonable interface to production database for MOP. Then working with Conrad at Caltech, Java Applet based CLARENS client is developed, that works with previously developed McRunjob and MOP web services. This prototype can then be eveolved into a complete project to make like easy for production operators. The other spin off is MC generation service at FermiLab T1 can hifgly benifit for expereince and architectural issues learned in this project.

2. DatasetBuilding, The script developed by me around end of March for building Datasets for Hits and Digis created at USMOP and stored in dcache at FNAL is used to generetae several datasets. Though dcache access is a huge bottle neck, the script works fine in building POOL catalog and other related META datafiles for running on Previously generated Hits/Digis. The code was made re-entrant, and some bugs were removed. This is an important pre-requisite for running DST assignments. So its going to be very useful.

3. DC04Configurators, Freshly developed DC04Configurators needed some last finishing touch, and then MOP part was also finished up making it possible and easy to run DC04 analysis, and in future "analysis" jobs via McRunjob and if so wished over USMOP-GRID. I did the final development, testing and documentation. This was then successfully used by T2 at Florida to run T2 to T1 submission of DC04 analysis jobs. http://home.fnal.gov/ anzar/MOP_MASTER/DC04Config_Operations_Manual.html.

4. McRunjob/MOP CLARENS-Service code is being shared with other GAE/CLARENS and T2 collegues to help them build a GRID based analysis

environment.

5. Month ended with start of "new" McRunjob release based on ScriptObject architecture, previously designed and proposed by me. This required several code changes, thorough testing and some new development, like a new MOPConfigurator for job submission. The effort is continuing into May..

6. Support, Continued providing support for PCP Production and provided support for running DatasetBuilding script at FNAL. Developed tool that run file discovery from RefDB and help identify data inconsistencies at FNAL-Dcache and RefDB.

2   Status of Deliverables

1. McRunjob newer version is almost ready to go, with MOP working for all steps but DSTs. 2. MOPDb project is presentation ready, some interface development is underway. 3. DSTs are running at FNAL, finally.

3   Plans For Next Month

1. DSTs running at FNAL and then handed over to Production Operations. 2. Dataset creation tools, handed over to Production Operations. 3. MOPDb project, prototype release

4   Longer Term Plans

1. After MOPDb project, prototype release, getting a status upgrade for the project to run Production via it, or develop better/similar tool. 2. DSTs over GRID.

5   Links To Supporting Documentation

- http://home.fnal.gov/ anzar/MOP_MASTER/DC04Config_Operations_Manual.html

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